

CLAIMS

1. A hollow fiber membrane submodule comprising:
a hollow fiber membrane element having a feed fluid inlet,
5 a feed fluid distribution pipe in communication with the feed
fluid inlet, and an assembly of hollow fiber membranes having
selective permeability and disposed around the feed fluid
distribution pipe, wherein both ends of the hollow fiber membrane
assembly are separately fixed with resin, and at least one end of
10 the hollow fiber membrane assembly is subsequently cut to hollow
out the hollow fiber membranes; and
permeated fluid collectors for collecting permeated fluid
flowing from the opening or openings of the hollow fiber
membranes,
15 the permeated fluid collectors being secured to the hollow
fiber membrane element with removable snaps in a non-continuous
manner.
2. The hollow fiber membrane according to Claim 1,
20 wherein the hollow fiber membranes having selective permeability
are arranged in a crisscross fashion around the feed fluid
distribution pipe in communication with the feed fluid inlet.
3. The hollow fiber membrane according to Claim 1 or
25 Claim 2, wherein the hollow fiber membranes are reverse osmosis
membranes.
4. The hollow fiber membrane according to any of Claims
1 to 3, wherein the snaps are made of resin.
- 30 5. The hollow fiber membrane according to any of Claims
1 to 4, wherein the snaps have an impact strength of not less
than 2.5 kg·cm/cm, a bending elasticity coefficient of 10,000 to
200,000 kg/cm², and a tensile strength of not less than 400 kg/cm².

6. A hollow fiber membrane module comprising two or more of the hollow fiber membrane submodules according to any of Claims (1) to (5) in a pressure vessel.